Closing the Subsea Equipment Feedback Loop
Agenda

• SEAR – Who we are
• An outside perspective
• Challenges
• Subsea Test Structure
• Failure database
“Elimination of subsea equipment failures through knowledge sharing and collaboration.”
Insanity: reality doing the same thing over and over again and expecting different results.

Albert Einstein
"By failing to prepare, you are preparing to fail."

-BENJAMIN FRANKLIN
Ask no questions, and you’ll be told no lies.

Charles Dickens
Design

User experience
If you want to go fast, go alone. If you want to go far, go together.

~African proverb
Environmental Challenges

Average noon clear-sky UV Index
Summer

Average noon clear-sky UV Index
Winter
6:20am - Low tide - 0.56 metres
Subsea Challenges
Subsea Test Structure
Subsea Test Structure

• What are we testing?
  – Problematic mechanical interfaces
  – Novel coatings and materials
    • To eliminate or minimise the effects of marine growth and calcareous deposits

• How are we testing?
  – Purposely built structures deployed offshore close to existing facilities

• Timeframe?
  – 1-4 years
  – Hope to deploy one or two every year in the future
Failure Database

• A failure database that will host all failures, test results and lessons learnt in one place for Operators operating in Australia.
• Will provide ‘live’ reliability data.
• Linked to detailed description of all components to highlight trends.
• Based on ISO standard 14224:2006 Petroleum, petrochemical and natural gas industries -- Collection and exchange of reliability and maintenance data for equipment.
• Easy import and export of data
• Intuitive and easy to use
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